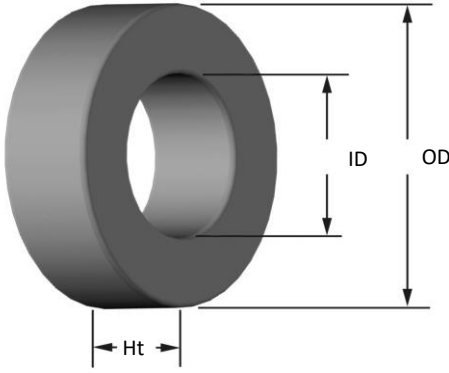




Part Number: **T68-5**
Revision 2024-Jul-8 - Generated 2024-Jul-8



OD	(nom. - bare core)	17.53 mm	0.690 in										
	(max. - including coating, if any)	18.03 mm	0.710 in										
ID	(nom. - bare core)	9.40 mm	0.370 in										
	(min. - including coating, if any)	8.89 mm	0.350 in										
HT	(nom. - bare core)	4.83 mm	0.190 in										
	(max. - including coating, if any)	5.33 mm	0.210 in										
Mass	(approximate)	3.8 grams											
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	0.179 cm ²											
	Le - Eff. Mag. Path Length	4.23 cm											
	Ve - Eff. Core Volume	0.759 cm ³											
	WA - Min. Eff. Window Area	0.621 cm ²											
	sa - Surface Area	10.6 cm ²											
	mlt - mean length per turn	2.43 cm											
	μ (reference)	5											
Inductance	AL value (nominal)	2.7 nH/N ²											
	Test Winding	N=100, #30 AWG											
	Test Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
	AL tolerance	±5%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=8.00E-15$												
	B_{pk}	140 G											
	frequency	100 kHz											
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: $a=1.00E-02$, $b=1.34E-08$, $c=1.55$, $d=0.00$												
Coating/Pkg	Hdc	200 Oe											
	Percent Initial Perm.(nom.)	99.5%											
	Percent Initial Perm.(min.)	99.4%											
	Coating Type:	Green/Clear Epoxy Paint											
Winding Table	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
	Package Quantity	3,000 Pcs/Box											
Winding Table	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	101	126
		Rdc(Ω)	2.4 m	4.8 m	10.2 m	20.2 m	41.1 m	81.8 m	165.9 m	331.0 m	658.1 m	1.3	2.6
Full Winding	Turns	12	19	29	45	69	107	166	256	397	614	950	
	Rdc(Ω)	2.4 m	6.1 m	14.7 m	36.4 m	88.7 m	218.8 m	539.9 m	1.3	3.3	8.0	19.8	

